

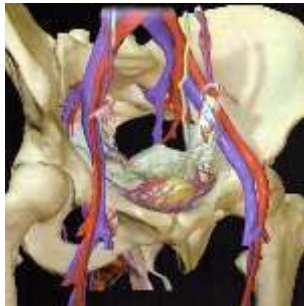


Топографска анатомия на таза

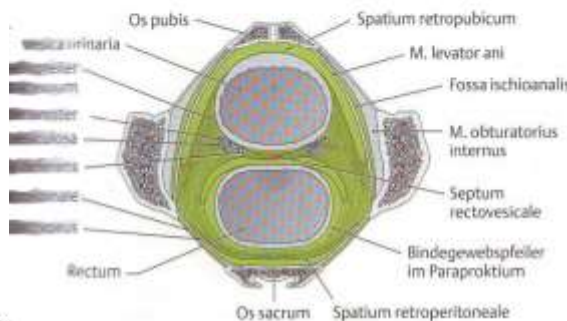
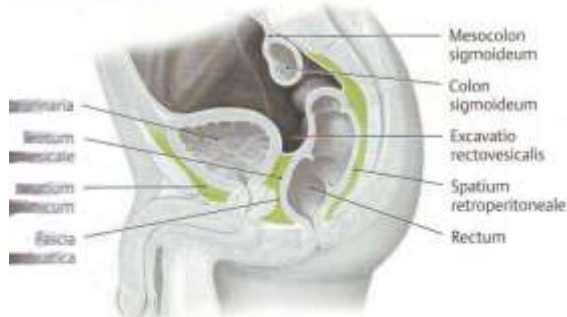
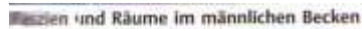
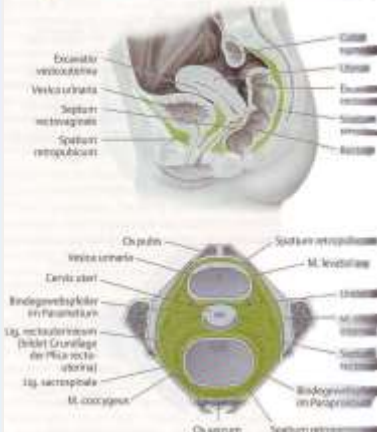
1. Таз – граници, ориентири и отдели
2. Перитонеален отдел на таза
3. Субперитонеален отдел на таза
4. Подкожен отдел на таза, междинница
5. Перитонеални образувания и пространства – топографски отношения



Pelvis

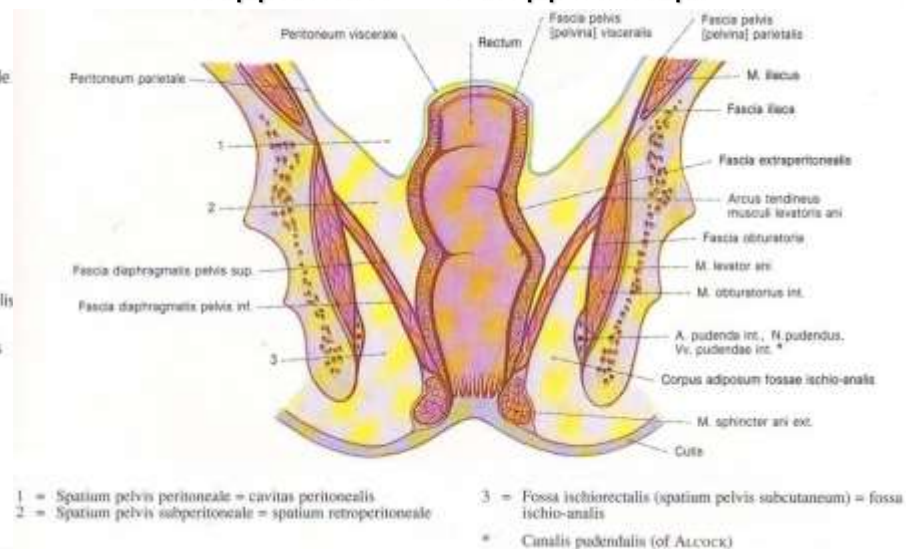


Faszien und Räume im weiblichen Becken



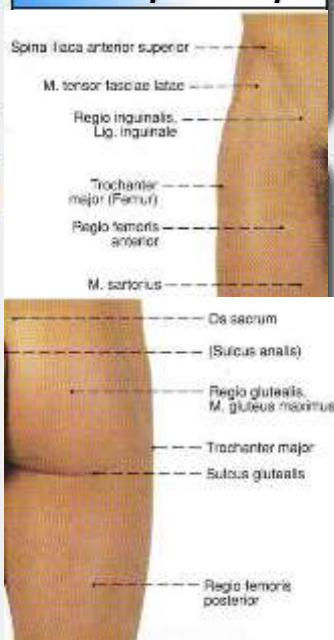
- **отдели:**

- ✓ перитонеален
- ✓ субперитонеален
- ✓ подкожен = междинница



проф. д-р Николай Лазаров

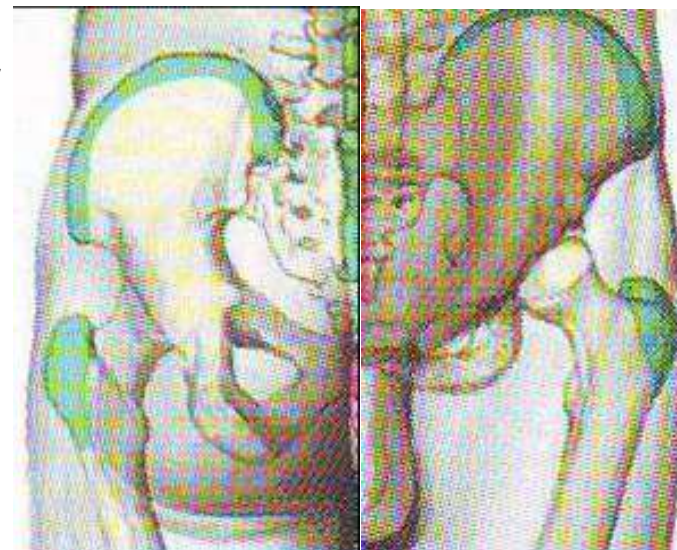
Важни ориентири



Външни палпаторни ориентири

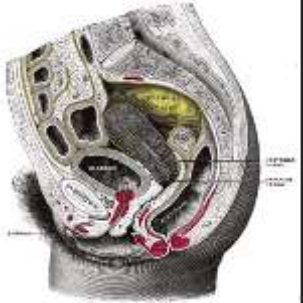
■ КОСТНИ ТОЧКИ И ЛИНИИ:

- ✓ *spina iliaca anterior superior*
- ✓ *spina iliaca posterior superior*
- ✓ *crista iliaca*
- ✓ *symphysis pubica*
- ✓ *ramus superior ossis pubis*
- ✓ *tuberculum pubicum*
- ✓ *crista sacralis mediana*
- ✓ *apex ossis coccygis*
- ✓ *tuber ischiadicum*
- ✓ *spina ischiadica*
- ✓ *arcus pubis*
- ✓ *promontorium ossis sacri* у жени



Перитонеален отдел на таза, *cavum pelvis peritoneale*

Cavitas pelvis peritonealis

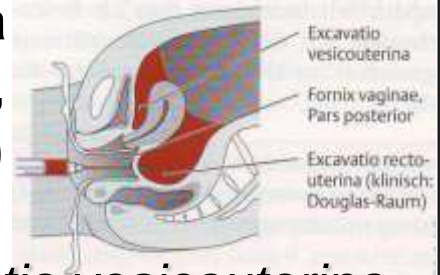


- долна част на перитонеалната кухина
- тазови органи: ректум, пикочен мехур, матка, маточни тръби, яйчник (у жена)
- у мъжа:

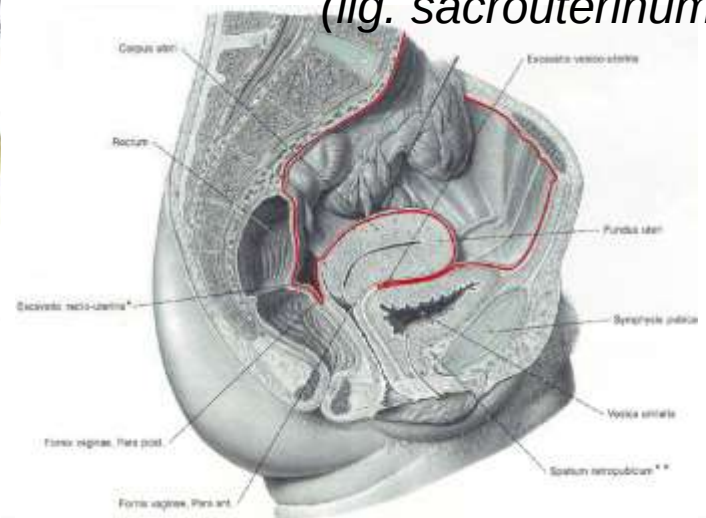
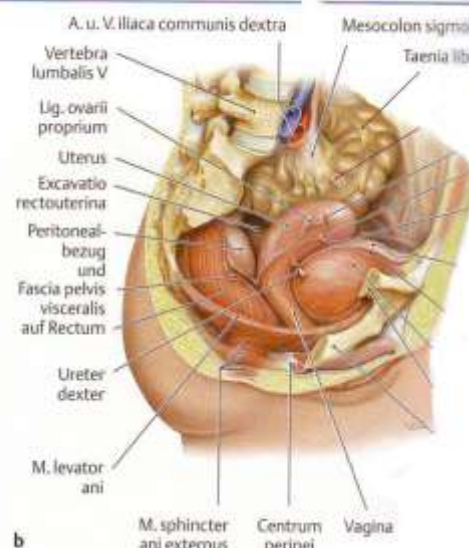
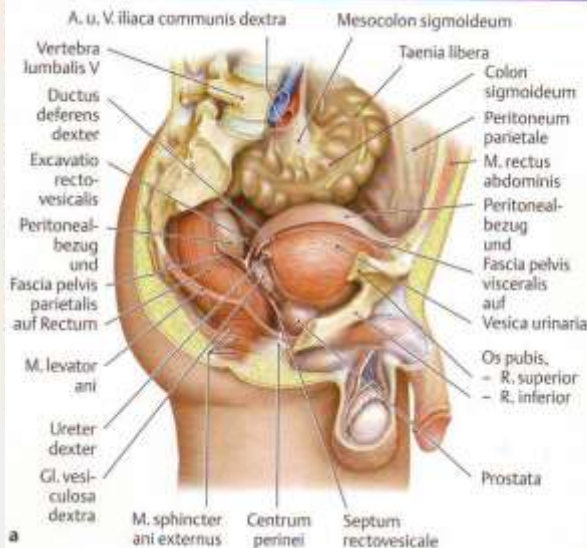
- ✓ *plica vesicalis transversa*
- ✓ *excavatio rectovesicalis* (джоб на Ben)
- ✓ *plicae rectovesicales*

■ у жената:

- ✓ *excavatio vesicouterina* (джоб на Meiring)
- ✓ *excavatio rectouterina* (пространство на Douglas)
⇒ *plica rectouterina* (lig. sacrouterinum)

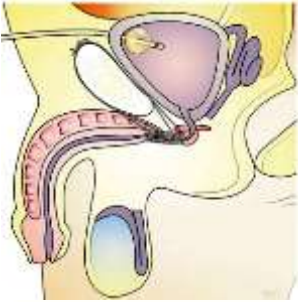


⊙ H-1.6 Peritonealverhältnisse im männlichen und weiblichem Becken



Peritoneum parietale anterius

Пункция на пикочен мехур

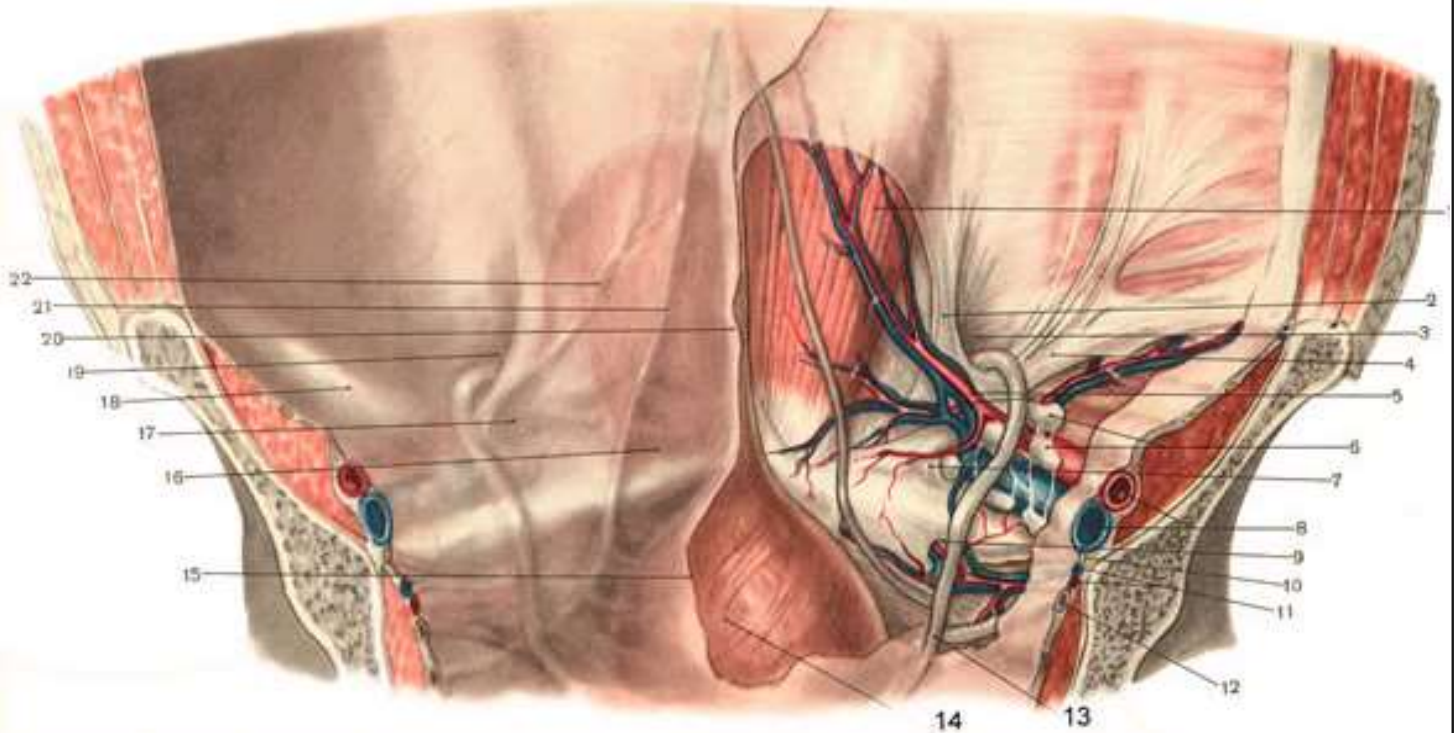


- ✓ *plica umbilicalis mediana* – urachus
- ✓ *plica umbilicalis medialis* – chorda a. umbilicalis
- ✓ *plica umbilicalis lateralis* – a. et v. epigastrica inferior
- ✓ *plica vesicalis transversa*

⇒ fossa supravesicalis

⇒ fossa inguinalis medialis: anulus inguinalis sup.

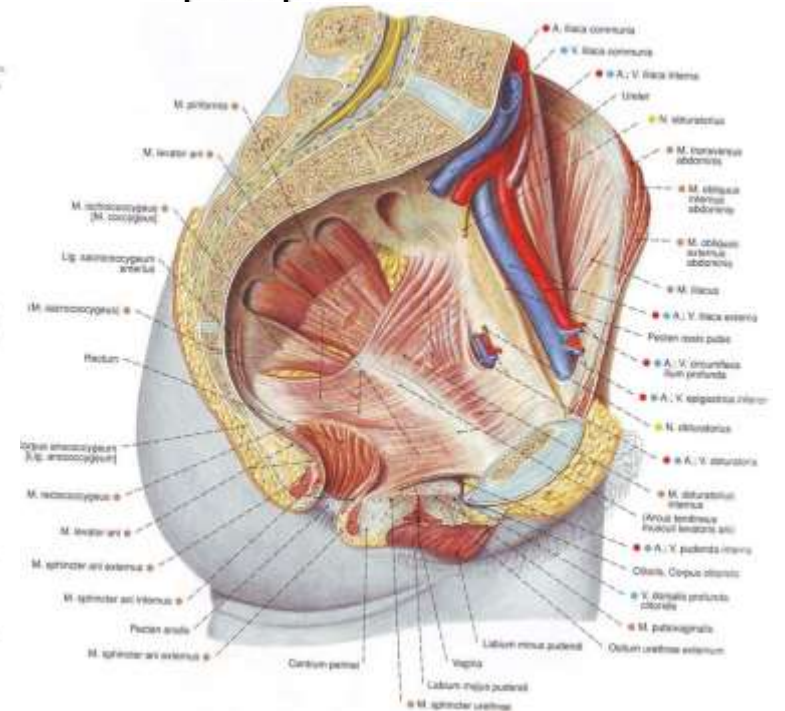
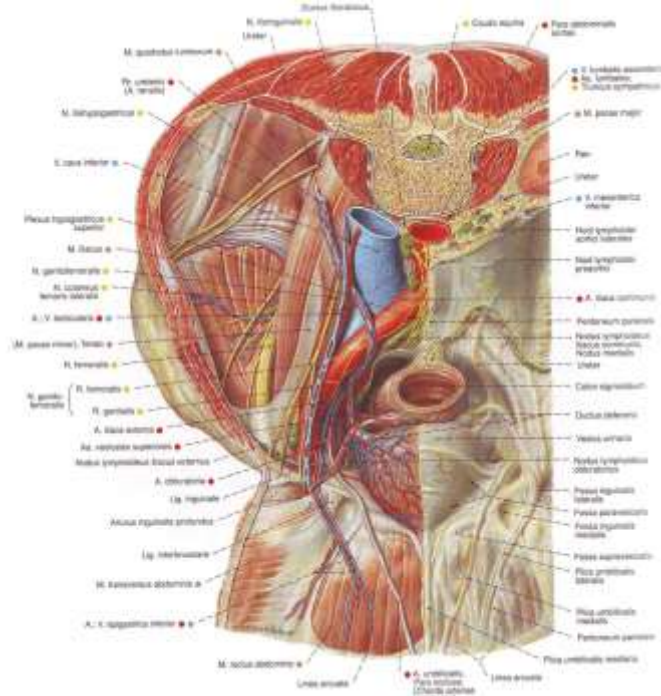
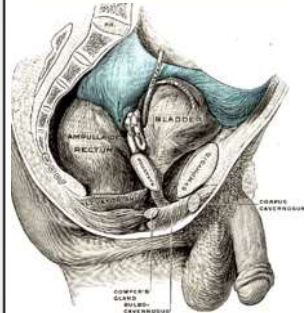
⇒ fossa inguinalis lateralis: anulus inguinalis prof.



Субперитонеален отдел на таза, *cavum pelvis subperitoneale* (екстраперитонеално тазово пространство)

- *pelveoperitoneum parietale*
 - *fascia pelvis parietalis* ⇒ *arcus tendineus fasciae pelvis*
 - *m. levator ani*
 - *fascia pelvis visceralis*
- пристенни съединителнотъканни пространства

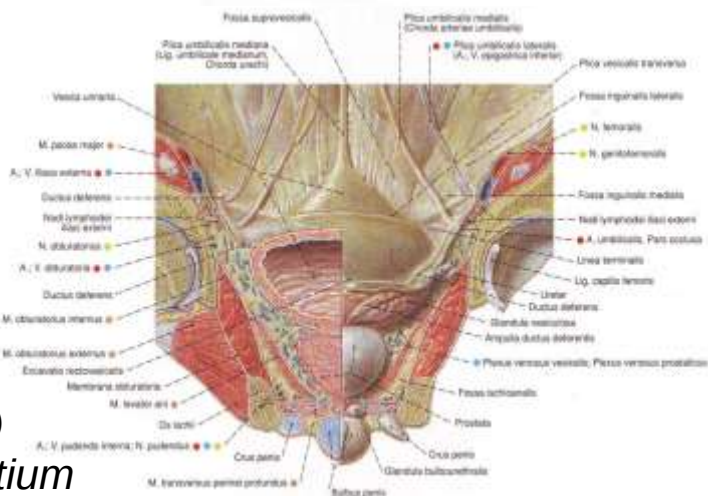
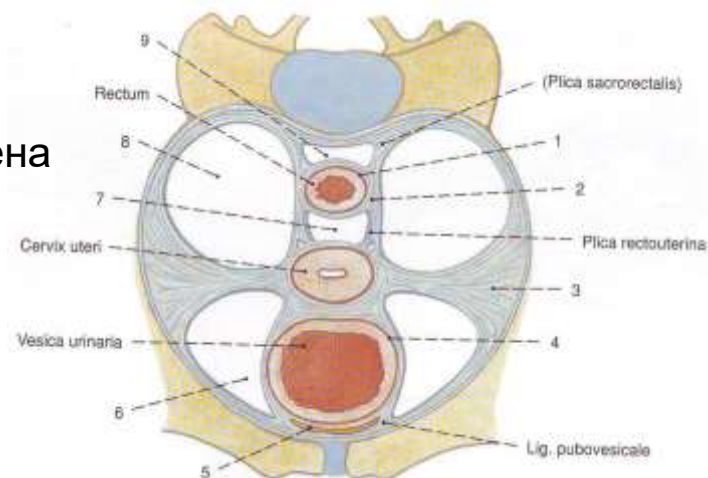
Spatium retroperitoneale





Превезикално пространство, *spatium prevesicale (retropubicum), cavum Retziusi*

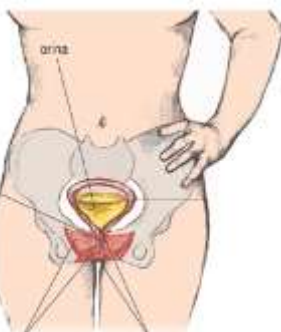
- граници:
 - ✓ предна:
 - долна част на коремната стена
 - *symphysis pubica*
 - *os pubis*
 - ✓ задна:
 - предна повърхност на пикочен мехур
 - простата (у мъжа)
 - ✓ странична:
 - *lig. pubovesicale*
 - ✓ дъно:
 - пикочно-полова диафрагма
- съдържимо:
 - ✓ *plexus venosus vesicalis*
 - ✓ *plexus venosus prostaticus*
 - ✓ *a. vesicalis superior et inferior*
 - ✓ хлабава съединителна тъкан:
 - *lig. pubovesicale*
 - *lig. puboprostaticum* (у мъже)
- *spatium paravesicale* ⇨ *paracystium*



топография

съдържимо

*Spatium
retrovesicale*



Ретровезикално пространство, *spatium retrovesicale (prerectale)*

■ граници:

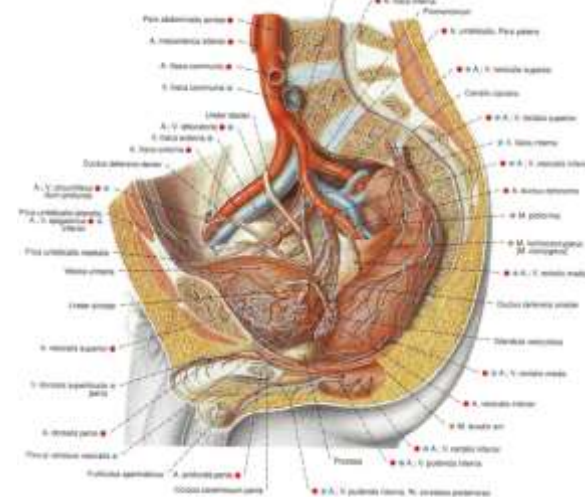
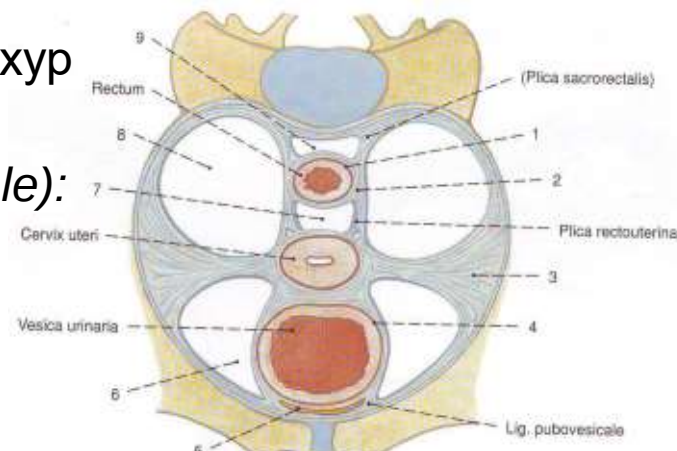
- ✓ задна стена на пикочен мехур
- ✓ съединителнотъканна пластинка (*septum prerectale*):
 - перитонеум – отгоре
 - междинница – отдолу

■ съдържимо у мъжа:

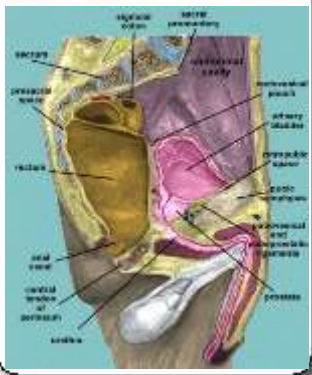
- ✓ *plexus venosus prostaticus*
- ✓ простатна жлеза
- ✓ семепроводи – тазова част
- ✓ семенни мехурчета
- ✓ пикочопроводи – тазова част

■ съдържимо у жената:

- ✓ влагалище
- ✓ *septum pre- et retrovaginale*

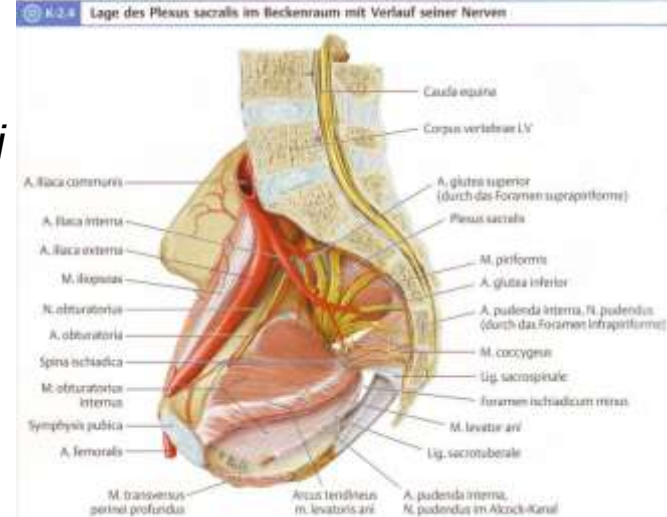
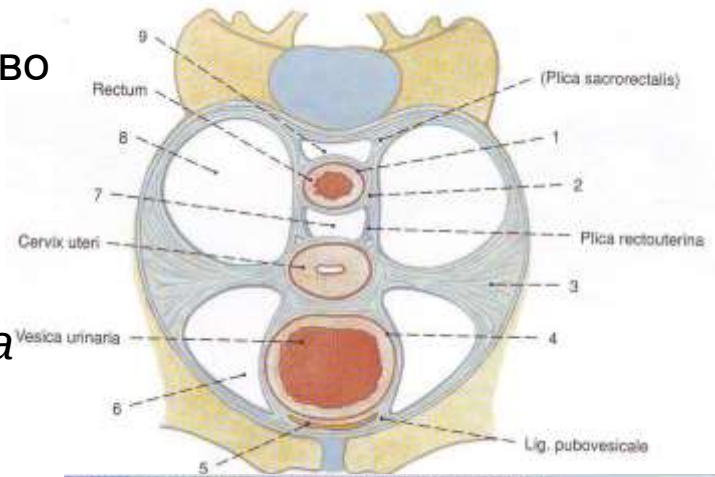


Spatium presacrale

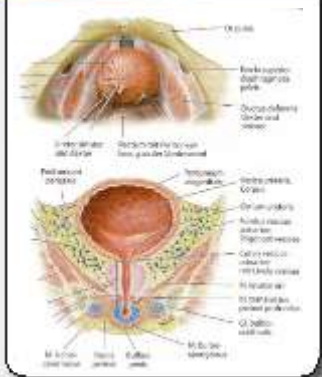


Ретроектално пространство, *spatium retrorectale (presacrale)*

- **граници:**
 - ✓ задна стена на право черво
 - ✓ *os sacrum*
- **съдържимо:**
 - ✓ хлабава и мастна тъкан
 - ✓ *a. rectalis superior et media*
 - ✓ *aa. sacrales laterales*
 - ✓ *plexus venosus sacralis*
 - ✓ *plexus hypogastricus inferior*
 - ✓ *pars pelvina trunci sympathici*
 - ✓ тазови лимфни възли
- **комуникация с:**
 - ✓ ретроперитонеалното пространство
- *paraproctium*

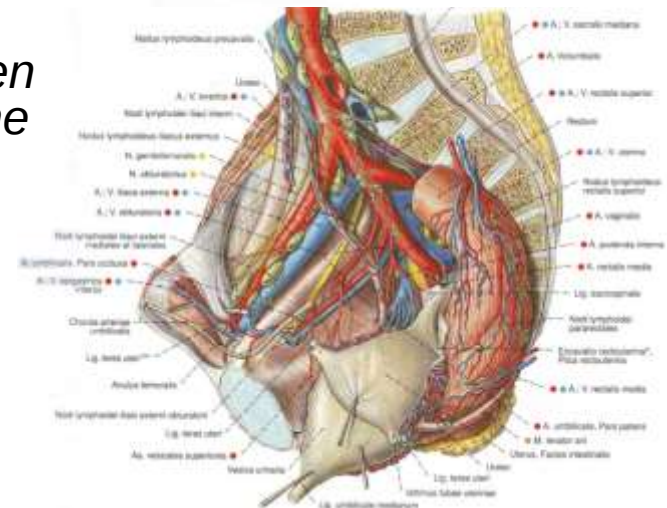
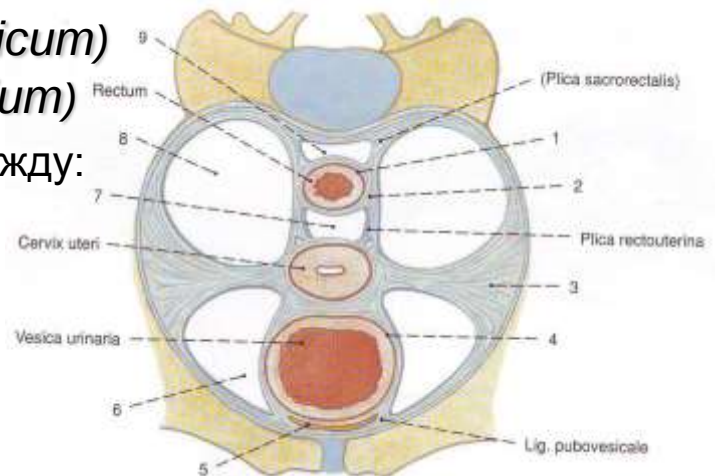


Spatium paravesicale



Странично пространство, *spatium laterale*

- *spatium paravesicale (paracysticum)*
- *spatium pararectale (paraproctium)*
- разположение – встрани и между:
 - ✓ *fascia pelvis parietalis*
 - ✓ *fascia pelvis visceralis*
 - ✓ *fascia diaphragmatis pelvis superior* – отдолу
- комуникация с:
 - ✓ ретроперитонеум
 - ✓ седалищна област ⇔ *foramen suprapiriforme et infrapiriforme*
 - ✓ бедро ⇔ *canalis obturatorius*
- съдържимо:
 - ✓ *plexus sacralis*
 - ✓ *plexus hypogastricus inferior*
 - ✓ клонове на *a. iliaca interna*
 - ✓ венозни сплетения



топография

съдържимо

Parametrium

Параметрално пространство, *parametrium*

■ части и разположение:

✓ страничен параметриум

⇒ между *lig. latum uteri*
(*mesovarium, mesosalpinx, mesometrium*)

✓ прецервикален и ретроцервикален
параметриум ⇒ встрани от *cervix uteri*

■ съдържимо:

✓ *plexus venosus uterinus et vaginalis*

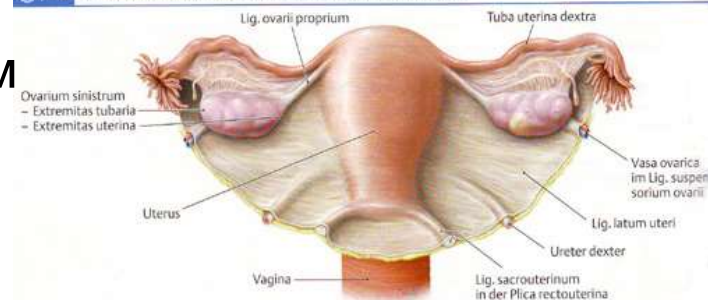
✓ *plexus uterovaginalis*

✓ *a. uterina*

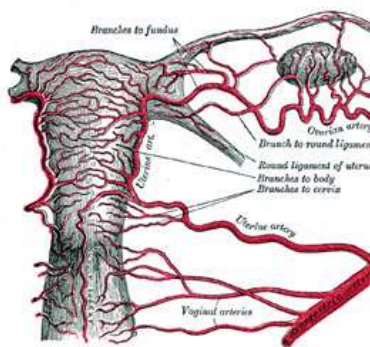
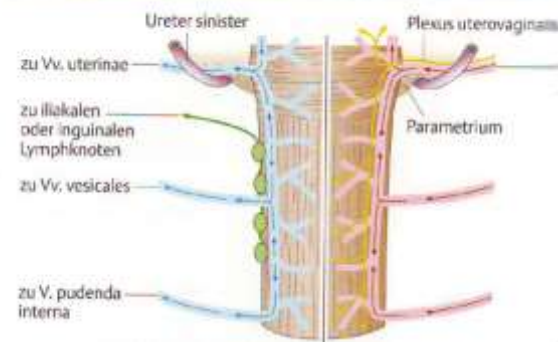
✓ пикочопровод

✓ лимфни възли

© J-3.2 Übersicht über die inneren weiblichen Geschlechtsorgane



© J-1.8 Gefäßversorgung und Innervation der Vagina



Топографски отношения на тазовите органи

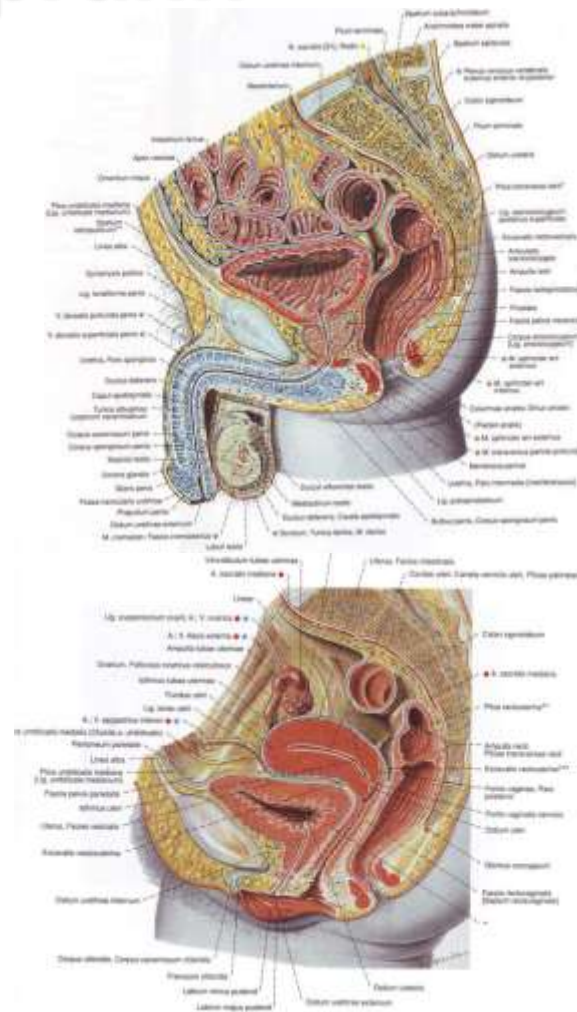
- пикочен мехур, *vesica urinaria*
- право черво, *rectum*

у мъжа:

- простатна жлеза, *prostata*
- семенни мехурчета, *vesiculae seminales*
- тазова част на семепровод, *ductus deferens*

у жената:

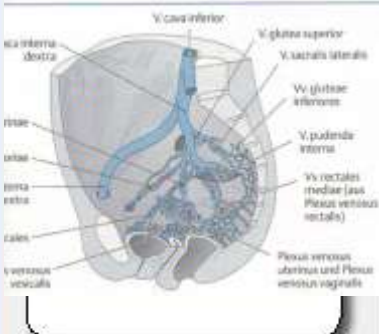
- матка, *uterus*
- маточна тръба, *tuba uterina*
- яйчник, *ovarium*
- влагалище, *vagina*



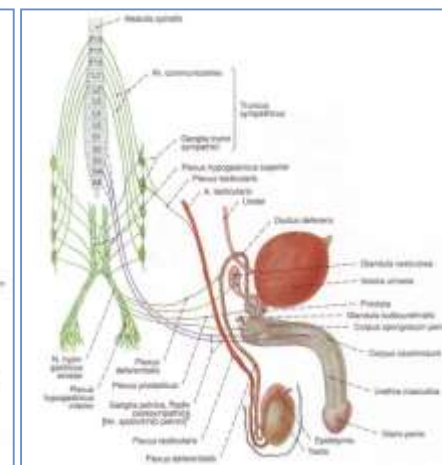
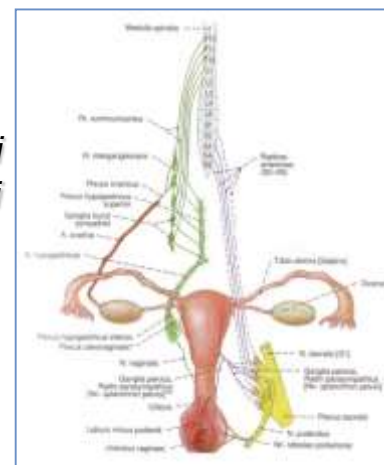
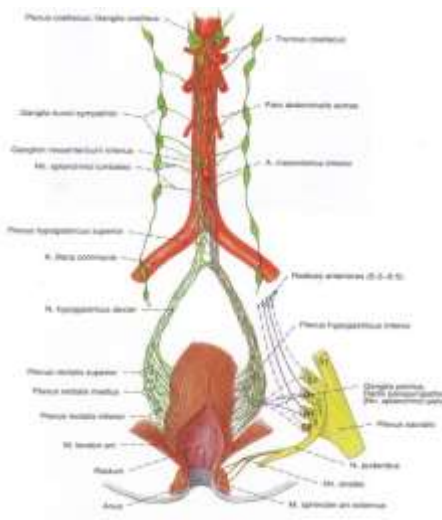
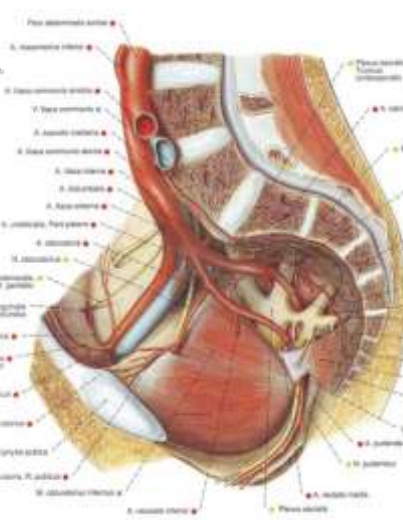
Топографски отношения на съдовите и нервни структури

Венозни сплетения

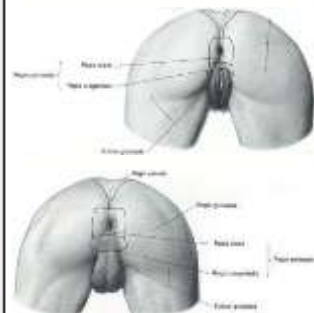
Vena iliaca interna und Venenplexus des Beckens



- a. et v. iliaca interna
- *plexus hypogastricus superior (presacralis)*
- *plexus hypogastricus inferior (pelvicus)*
- *plexus lumbosacralis*
- *plexus venosus rectalis*
- *plexus venosus vesicalis*
- венозни сплетения у мъжа:
 - ✓ *plexus deferentialis*
 - ✓ *plexus prostaticus*
- венозни сплетения у жената:
 - ✓ *plexus uterovaginalis*
- тазови лимфни възли:
 - ✓ *nodi lymphatici iliaci externi*
 - ✓ *nodi lymphatici iliaci interni*
 - ✓ *nodi lymphatici sacrales*
 - ✓ *nodi lymphatici ischiorectales*
 - ✓ *nodi lymphatici diaphragmatis pelvis*
- *pars pelvina trunci sympathici*



Regio
perinealis



Подкожен отдел на таза, *cavum pelvis subcutaneum*

■ междинница, *perineum*

■ тазово дъно – граници:

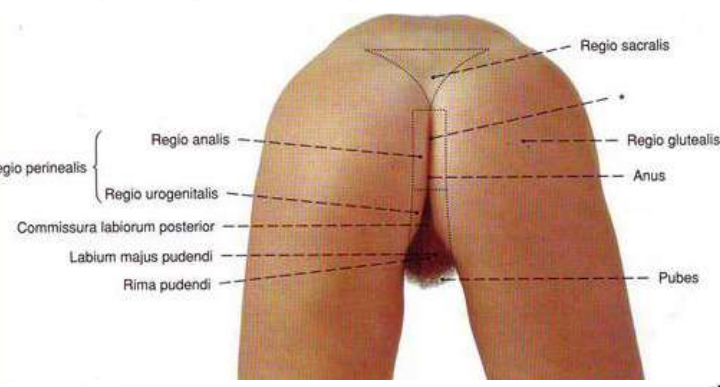
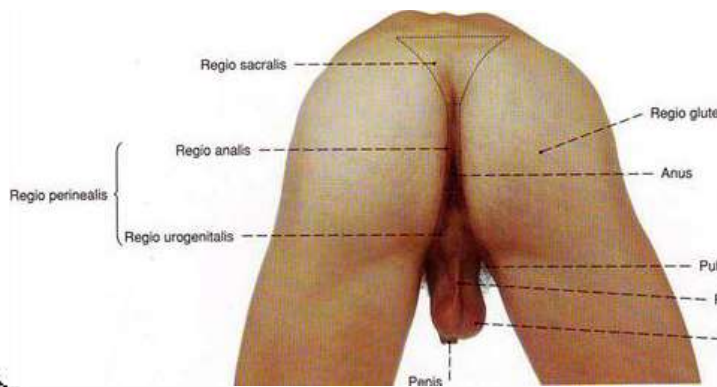
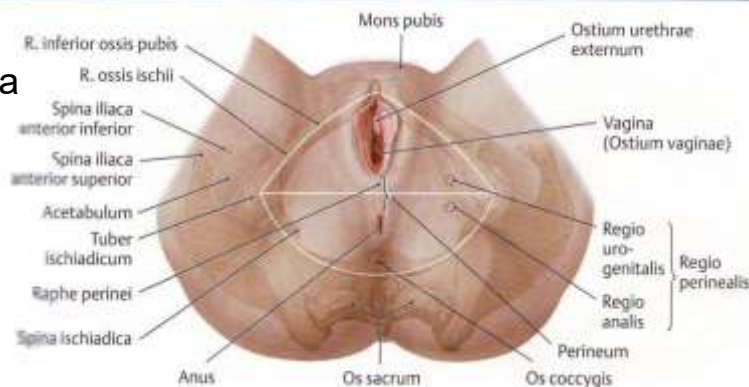
- ✓ отпред – долен ръб на симфиза
- ✓ встрани – *os pubis*, *os ischii*, *tuber ischiadicum*, *lig. sacrotuberale*
- ✓ отзад – *apex ossis coccygis*

■ *regio perinealis*:

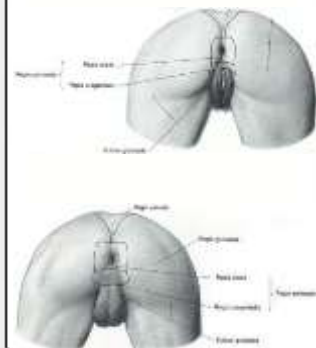
- ✓ *regio analis* (*trigonum anale*)
- ✓ *regio urogenitalis* (*trigonum urogenitale*)

■ съдържимо – мускули и фасции ⇒ *diaphragma pelvis*
diaphragma urogenitalis

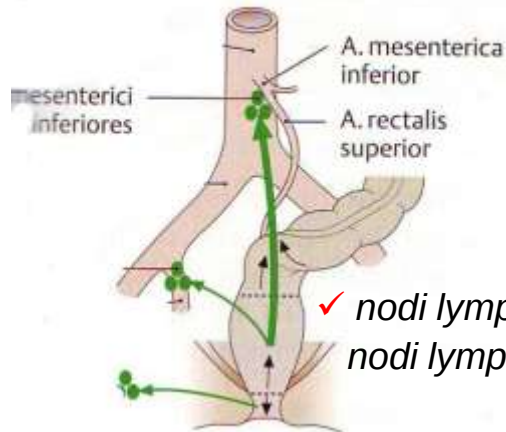
C-4.15 Dammregion (Regio perinealis)



Regio analis



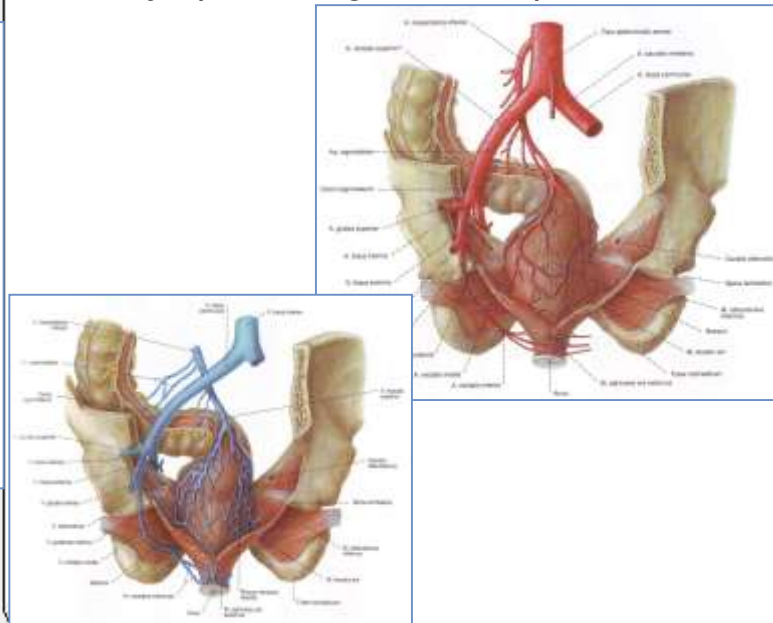
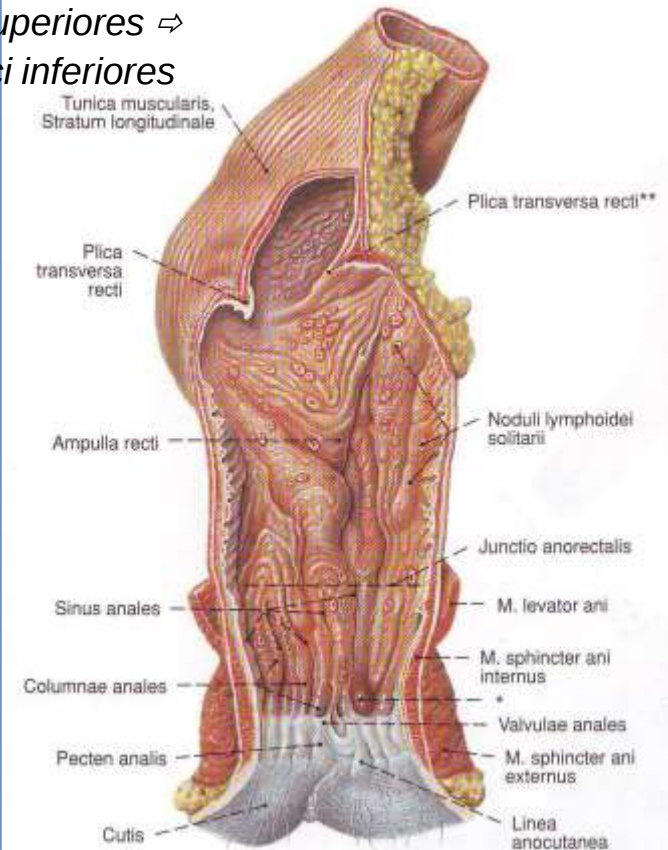
Lymphdrainage des Rektums



- ✓ *nodi lymphatici rectales superiores* ⇨
- nodi lymphatici mesenterici inferiores*
- ✓ *nodi lymphatici iliaci interni*
- ✓ *nodi lymphatici inguinales superficiales*

Regio analis

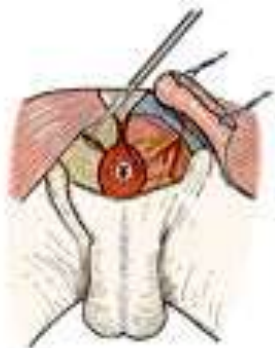
- право черво, *rectum*
- анус, *anus*:
 - ✓ *m. sphincter ani externus*
 - ✓ *lig. anococcygeum*



топография

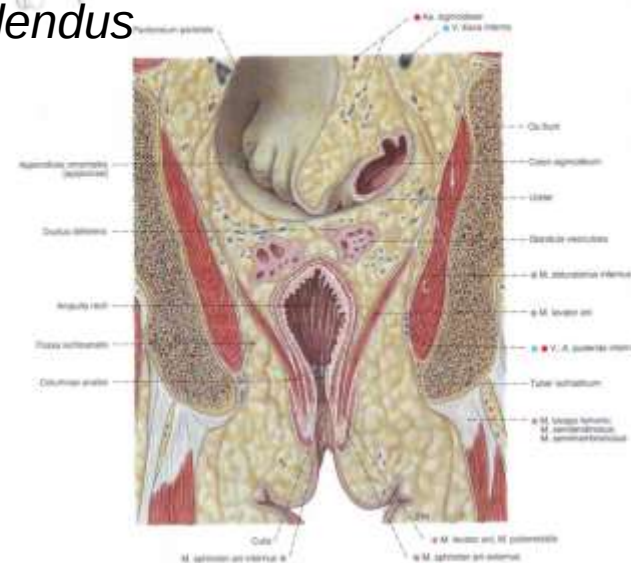
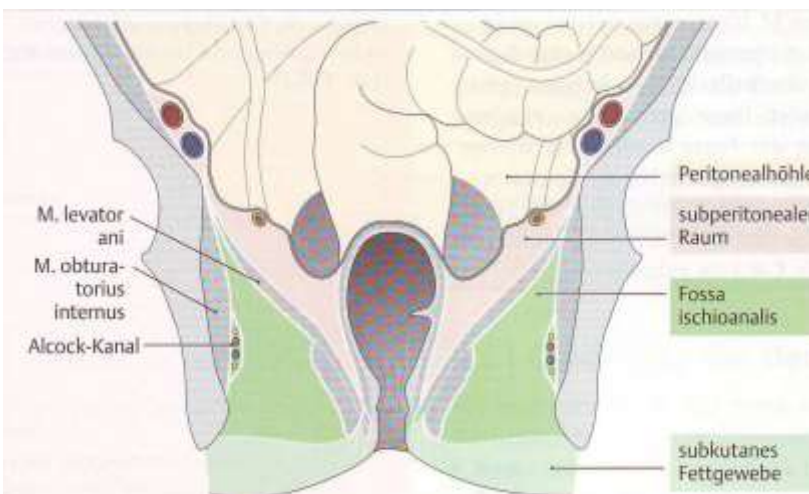
съдържимо

Fossa ischioanal



Fossa ischioanalis (ischioirectalis)

- граници:
 - ✓ латерална – *tuber ischiadicum*, *fascia m. obturatorii interni*
 - ✓ медиална и горна – *fascia diaphragmatis pelvis inferior*
- съдържимо:
 - ✓ мастна съединителна тъкан, *corpus adiposum* – абсцеси
 - ✓ съдово-нервен сноп –
a. et v. pudenda interna, n. pudendus



топография

съдържимо

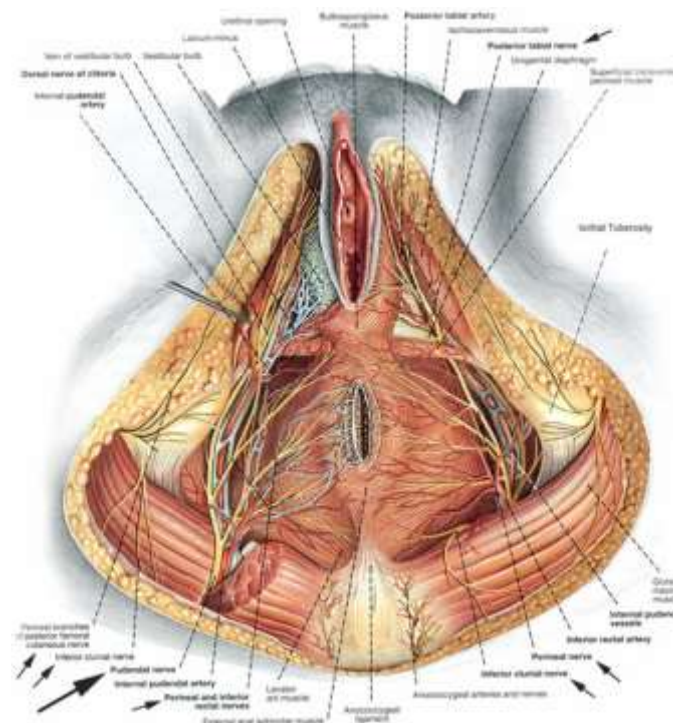
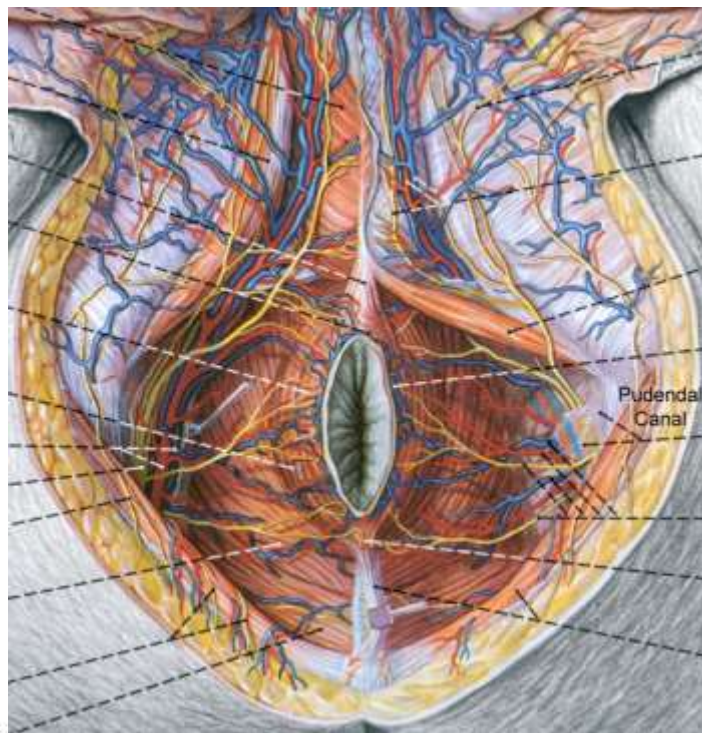
Alcock,

Benjamin Thomas
(1801-1855-?)



Canalis pudendalis, канал на Alcock

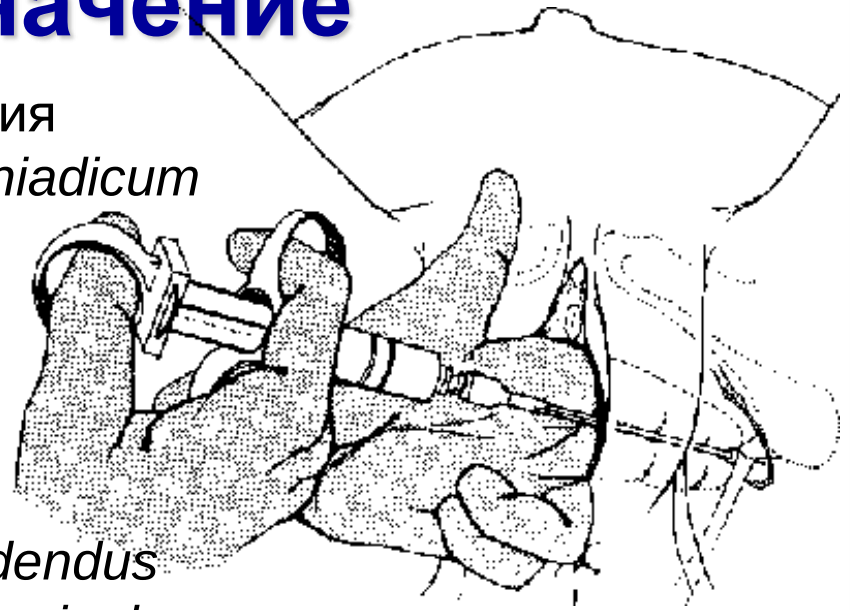
- образуван от разцепване на *fascia obturatoria*, 0,3-0,5 cm
- съдържимо – съдово-нервния сноп на областта:
 - ✓ *a. pudenda interna* – *a. rectalis inf.*, *a. perinealis*, *aa. scrotales (labiales) postt.*, *a. bulbi penis (vestibuli)*, *a. profunda penis (clitoridis)*, *a. dorsalis penis (clitoridis)*
 - ✓ *n. pudendus* – *nn. rectales inf.*, *nn. perineales*, *nn. scrotales (labiales) postt.*, *n. dorsalis penis (clitoridis)*



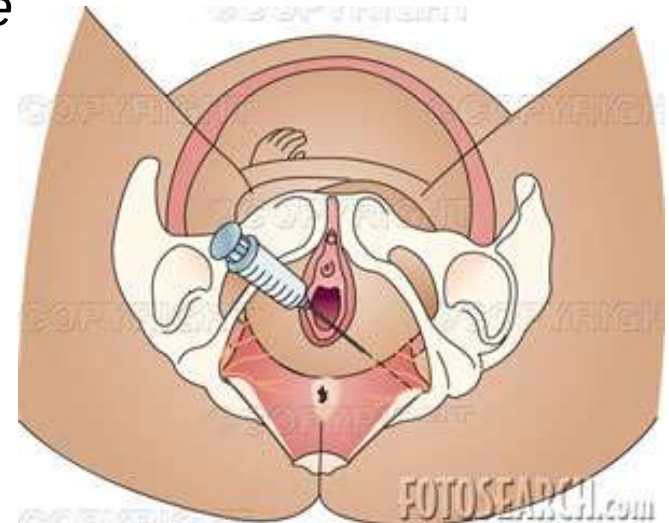
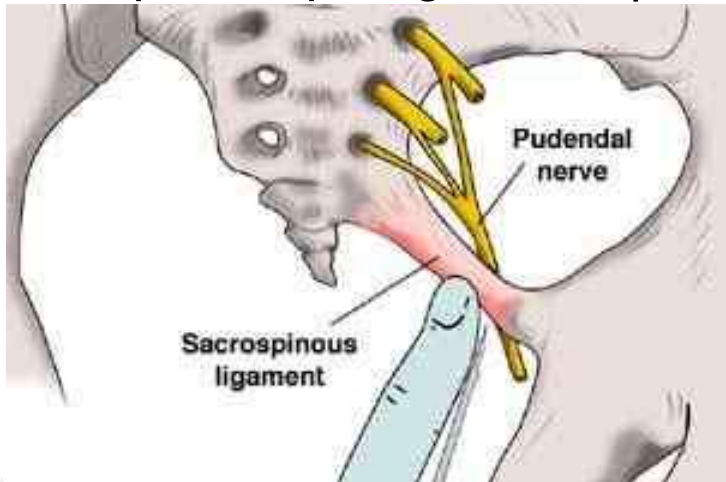
проф. д-р Николай Лазаров

Клинично значение

- перинеална анестезия
- ориентир – *tuber ischiadicum*



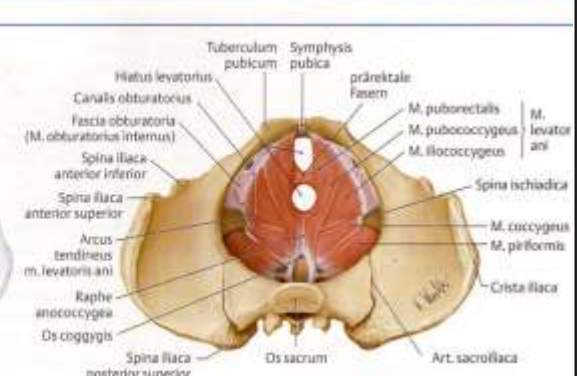
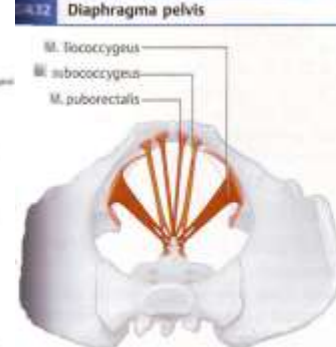
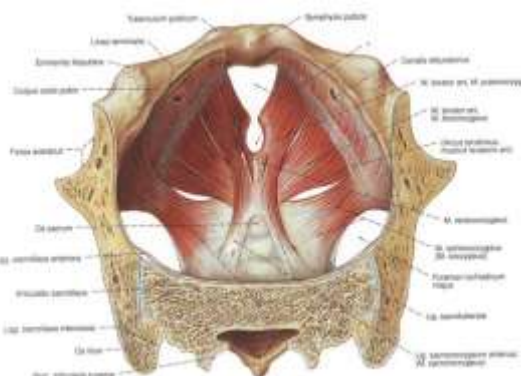
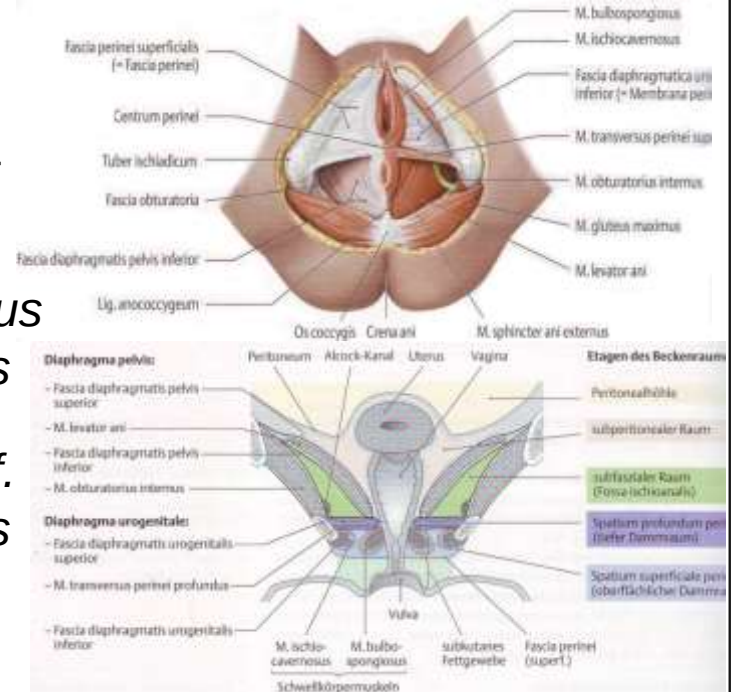
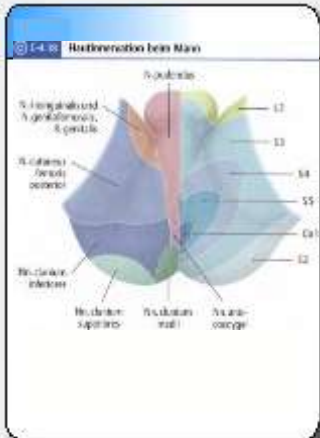
- притискане на *n. pudendus*
- ориентир – *lig. sacrospinale*



Тазово дъно: *diaphragma pelvis*

■ послоен строеж:

- ✓ кожа
- ✓ подкожна мастна тъкан – a., v. et nn. perineales
- ✓ *m. sphincter ani externus*, *m. levator ani*, *m. coccygeus*
- ✓ *fascia diaphragmatis pelvis inferior*
- ✓ *m. transversus perinei prof.*
- ✓ *fascia diaphragmatis pelvis superior*
- ✓ хлабава съед. тъкан ⇒ *hiatus urogenitalis*

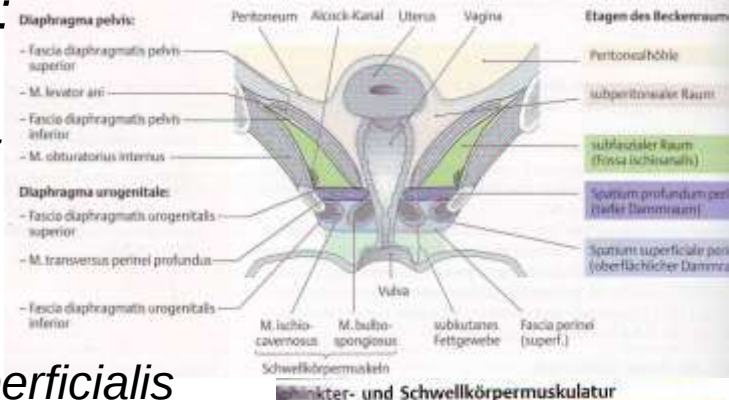


Diaphragma urogenitale

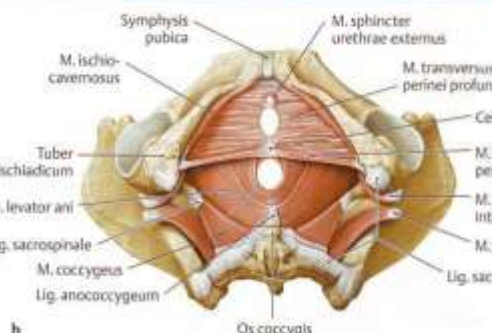
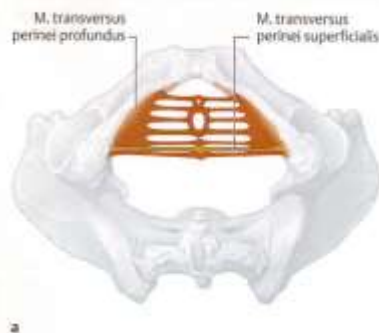


Trigonum urogenitale

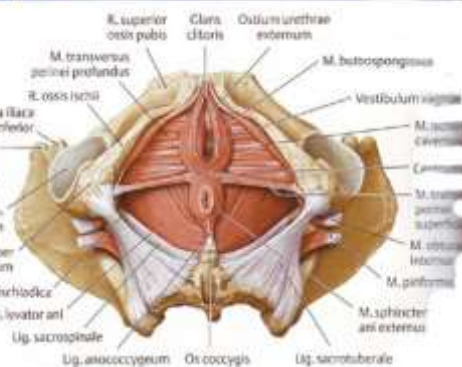
- *spatium perinei superficiale*:
 - ✓ fascia perinei superficialis
⇒ fascia penis (clitoridis)
 - ✓ centrum tendineum perinei (corpus perinealis)
 - ✓ m. ischiocavernosus, m. bulbocavernosus (m. bulbospongiosus)
 - ✓ m. transversus perinei superficialis
 - ✓ fascia diaphragmatis urogenitalis inferior
- *spatium perinei profundum (diaphragma urogenitale)*:
 - ✓ m. transversus perinei profundus, m. sphincter urethrae externus
 - ✓ fascia diaphragmatis urogenitalis superior



C-4.13 Diaphragma urogenitale



C-4.11 Beckenboden der Frau



Elvis Pelvis



Благодаря ...

